

Material Safety Data Sheet

Radiance



1 . Product and company identification

Common name	: Radiance	
Material uses	: Not available.	
Supplier/Manufacturer	: Modern Stone Technologies 2225 W. Pecos Rd. Suite 12 Chandler, Az. 85224 Toll free : 866-868-0810 support@moderstonecare.com Fax : (480) 969-1978	
In case of emergency	: CHEMTREC International: (703) 527-3887 866-868-0810	
MSDS authored by:	: Kemika XXI Inc. + 1-450-435-7475	08/15/2006

2 . Hazards identification

Physical state	: Liquid.
Hazard status	: This material is classified hazardous under OSHA regulations in the United States, the WHMIS Controlled Product Regulation in Canada and the NOM-018-STPS-2000 in Mexico.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eyes	: Irritating to eyes.
Skin	: Irritating to skin.
Inhalation	: Irritating to respiratory system.
Ingestion	: No known significant effects or critical hazards.
Potential chronic health effects	: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available.
Medical conditions aggravated by over-exposure	: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organ damage.

3 . Composition/information on ingredients

United States

Name	CAS number	%
Isopropyl alcohol	67-63-0	>1

Canada

Name	CAS number	%
Isopropyl alcohol	67-63-0	>1

Mexico**Classification**

Name	UN number	IDLH	H	F	R	Special	CAS number	%
Isopropyl alcohol	UN1219	2000 ppm	1	2	0		67-63-0	>1

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Seek medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Seek medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms occur.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

5 . Fire-fighting measures

- Flammability of the product** : Flammable.
- Products of combustion** : These products are carbon oxides.
- Extinguishing media**
- Suitable** : Use dry chemical, carbon dioxide, water spray (fog) or foam.
 - Not suitable** : Do not use water jet.
- Special exposure hazards** : Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : Eliminate all ignition sources. Use suitable protective equipment. Do not touch or walk through spilled material.
- Environmental precautions and clean-up methods** : Wash small spills to sanitary sewer. Large spills-confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

7 . Handling and storage

- Handling** : Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8 . Exposure controls/personal protection

United States

Product name

Isopropyl alcohol

Exposure limits
ACGIH TLV (United States, 1/2005).

STEL: 400 ppm 15 minute(s). Form: All forms.

TWA: 200 ppm 8 hour(s). Form: All forms.

NIOSH REL (United States, 12/2001).
STEL: 1225 mg/m³ 15 minute(s). Form: All forms.

STEL: 500 ppm 15 minute(s). Form: All forms.

TWA: 980 mg/m³ 10 hour(s). Form: All forms.

TWA: 400 ppm 10 hour(s). Form: All forms.

OSHA PEL (United States, 8/1997).
TWA: 980 mg/m³ 8 hour(s). Form: All forms.

TWA: 400 ppm 8 hour(s). Form: All forms.

Canada

Product name

Isopropyl alcohol

Exposure limits
ACGIH TLV (United States, 1/2005).

STEL: 400 ppm 15 minute(s). Form: All forms.

TWA: 200 ppm 8 hour(s). Form: All forms.

Mexico

Product name

Isopropyl alcohol

Exposure limits
NOM-010-STPS (Mexico, 9/2000). Skin
CCT: 1225 mg/m³ 15 minute(s). Form: All forms.

CCT: 500 ppm 15 minute(s). Form: All forms.

CPT: 980 mg/m³ 8 hour(s). Form: All forms.

CPT: 400 ppm 8 hour(s). Form: All forms.

Engineering measures	: Use only with adequate ventilation.
Personal protection	
Eyes	: Safety glasses.
Skin	: Lab coat.
Respiratory	: A respirator is not needed under normal and intended conditions of use.
Hands	: Natural rubber (latex). Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.
HMIS Code/Personal protective equipment	: B

Hygiene measures	: Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.
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9 . Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: 23 to 60°C (73.4 to 140°F).(Pensky-Martens.)
Auto-ignition temperature	: The lowest known value is 399°C (750.2°F) (Isopropyl alcohol).
Flammable limits	: The greatest known range is Lower: 2.5% Upper: 12% (Isopropyl alcohol)
pH	: Basic.
Boiling/condensation point	: 93.3 to 107.2°C (200 to 225°F)

Melting/freezing point	: Weighted average: -43.52°C (-46.3°F)
Relative density	: Weighted average: 0.89 (Water = 1)
Vapor pressure	: Weighted average: 3.3 kPa (24.75 mm Hg) (at 20°C)
Vapor density	: Weighted average: 1.33 (Air = 1)
Evaporation rate	: Weighted average: 1.02 compared with Butyl acetate.
Solubility	: Miscible in water.

10 . Stability and reactivity




Stability and reactivity	: The product is stable.
Incompatibility with various substances	: Reactive with oxidizing materials.
Hazardous polymerization	: Will not occur.
Conditions of reactivity	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts.

11 . Disposal considerations

Waste disposal	: Dispose material in accordance with all local, state, and federal regulations.
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12 . Transport information

NAERG : 128

Regulatory information	Proper shipping name	Class	UN number	PG	Label
UN / IMDG / IATA Classification	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol)	3	UN1993	III	
DOT Classification	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol) ORM-D Consumer Commodity. Please refer to 49 CFR 173.54, 203, .241 for details.	3	UN1993	III	
TDG Classification	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol)	3	UN1993	III	

13 . Regulatory information

United States

HCS Classification : Flammable liquid
Irritating material
Target organ effects

U.S. Federal regulations : TSCA : All components listed.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Isopropyl alcohol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Isopropyl alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

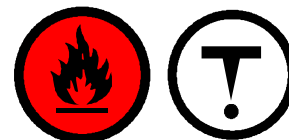
	Product name	CAS number	Concentration
Form R - Reporting requirements	: Isopropyl alcoho	67-63-0	>1
Supplier notification	: Isopropyl alcohol	67-63-0	>1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	: Pennsylvania RTK: Isopropyl alcohol: (environmental hazard, generic environmental hazard) Massachusetts RTK: Isopropyl alcohol New Jersey: Isopropyl alcohol California prop. 65: No products were found.
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Canada


WHMIS (Canada)	: Class B-2: Flammable liquid Class D-2B: Material causing other toxic effects (Toxic).
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DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA and the Mexican NOM -018-STPS-2000. This MSDS contains all the information required by the CPR, OSHA and NOM -018-STPS-2000.

Mexico

Classification	: 	HAZARD RATINGS 4- Extreme 3- Serious 2- Moderate 1- Slight 0- Minimal
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International lists	: This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).
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14 . Other information

References	: - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.
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Version	: 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.